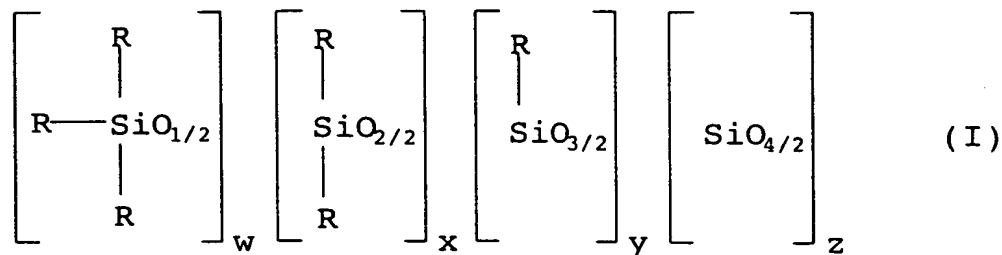


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ART 34 AMDT

We claim:

1. An additive mixture comprising,
 - i) as component A, at least one polysiloxane antifoam and
 - ii) as component B, at least one partially or completely neutralized fatty acid, a long-chain carboxylic acid, an ester of such a carboxylic acid or a mixture comprising at least one of these compounds.
2. An additive mixture as claimed in claim 1, which comprises, as component A, at least one polysiloxane of the general formula I



where

the R radicals are each independently an R¹, R², R³, R⁴ or R⁵ radical where

- R¹ is an aromatic or saturated aliphatic hydrocarbon radical,
- R² is an organic polyol,
- R³ is a polyether radical,
- R⁴ is a phenol radical,
- R⁵ is an R² radical, except that some or all of the hydroxyl groups have been converted to diesters, diethers, acetals and/or ketals,

$$w = 2 + y + 2z,$$

y and z are each independently a number from 0 to 2 where the sum of y and z corresponds to a number from 0 to 2 and

$$w + x + y + z = \text{from } 20 \text{ to } 60.$$

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3. An additive mixture as claimed in claim 2, wherein, in component A,
 R^1 is C_1 - C_{24} -alkyl, C_3 - C_{24} -cycloalkyl, C_4 - C_{24} -alkylcycloalkyl, C_6 - C_{10} -aryl or C_7 - C_{18} -arylalkyl,

R^2 is a saturated or unsaturated, branched or unbranched, aliphatic hydrocarbon radical which is substituted by at least two hydroxyl groups and is optionally interrupted by one or more oxygen atoms,

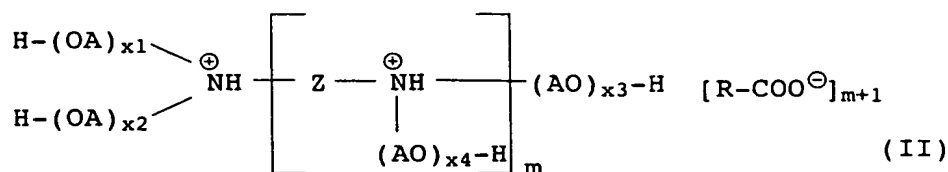
R^3 is a polyether radical which contains at least 50% by weight of copolymerized ethylene oxide units and has a molecular weight of up to 1500,

the quotient of the number of R^1 groups to the number of R^2 groups (R^1/R^2) is from 3 to 19 and

the quotient of the sum of the number of R^3 , R^4 and R^5 groups to the number of R^2 groups [$(R^3+R^4+R^5)/R^2$] is from 0 to 2.

4. An additive mixture as claimed in any of the preceding claims, wherein component B comprises at least one fatty acid neutralized by at least one amine.

5. An additive mixture as claimed in claim 4, wherein component B comprises at least one fatty acid salt of the formula II



where

R is C_7 - C_{23} -alkyl or mono- or polyunsaturated C_7 - C_{23} -alkenyl, each of which are optionally substituted by one or more hydroxyl groups;

A is C_2 - C_8 -alkylene;

Z is C_1 - C_8 -alkylene, C_3 - C_8 -cycloalkylene, C_6 - C_{12} -arylene or C_7 - C_{20} -arylalkylene;

m is a number from 0 to 5; and

x^1 , x^2 , x^3 and x^4 are each independently a number from 0 to 24,

and optionally at least one further fatty acid RCOOH where R is as defined above.

6. An additive mixture as claimed in any of claims 1 to 3, wherein component B comprises at least one saturated or unsaturated mono- or polycarboxylic acid having from 4 to 50 carbon atoms or at least one ester of such a carboxylic acid with a mono- or polyhydric alcohol having from 1 to 20 carbon atoms and from 1 to 8 hydroxyl groups.
7. An additive mixture as claimed in any of the preceding claims, wherein component A and component B are present in a weight ratio of from 1:200 to 1:10.
8. The use of an additive mixture as defined in any of the preceding claims for additizing fuel compositions.
9. The use as claimed in claim 8 for improving the antifoam performance of a fuel composition.
10. A fuel composition comprising a majority of a hydrocarbon fuel and an effective amount of an additive mixture as defined in any of claims 1 to 7, and optionally at least one further additive.
11. A fuel composition as claimed in claim 10 or the use as claimed in claim 8 or 9, wherein the fuel is diesel fuel, heating oil or kerosene.
12. A fuel composition or the use as claimed in claim 11, wherein the diesel fuel is one obtainable by refining, coal gasification or gas liquefaction, or a mixture thereof with renewable fuels.
13. An additive concentrate comprising an additive mixture as defined in any of claims 1 to 7 and at least one diluent and also optionally at least one further additive.

Abstract

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ART 34 AND 1

The present invention relates to an additive mixture comprising
5 at least one polysiloxane antifoam and at least one partially or
completely neutralized fatty acid, and also to a fuel composition
and an additive concentrate, each of which comprise this
composition.

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